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Toroidal metasurfaces in a 2D flatland

DOI: 10.1016/j.revip.2020.100040
Reviews in Physics, 2020, 5, 100040.

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Version: 2024-04-20

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#	Paper	IF	Citations
34	Antitoroidic and Toroidic Orders in All-Dielectric Metasurfaces for Optical Near-Field Manipulation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11315-11325	5.6	10
33	High-Q hybridized resonance in a plasmonic metasurface of asymmetric aligned magnetic dipoles. <i>Applied Physics Letters</i> , 2020 , 117, 081108	3.4	3
32	Active Switching of Toroidal Resonances by Using a Dirac Semimetal for Terahertz Communication. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	4
31	Symmetry analysis of trimer-based all-dielectric metasurfaces with toroidal dipole modes. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 115107	3	8
30	All-Dielectric Toroidal Metasurfaces for Angular-Dependent Resonant Polarization Beam Splitting. <i>Advanced Optical Materials</i> , 2021 , 9, 2002143	8.1	3
29	Subwavelength optical localization with toroidal excitations in plasmonic and Mie metamaterials. <i>Information Materials</i> , 2021 , 3, 577-597	23.1	10
28	Terahertz Microfluidic Sensing with Dual-Torus Toroidal Metasurfaces. <i>Advanced Optical Materials</i> , 2021 , 9, 2100024	8.1	14
27	Excitation of near field coupled dual toroidal resonances in a bilayer terahertz metamaterial configuration. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 285102	3	3
26	Pseudo-anapole regime in terahertz metasurfaces. <i>Physical Review B</i> , 2021 , 104,	3.3	2
25	Polarization-Sensitive High-Q Four-Arm Structured Toroidal Terahertz Metamaterial. <i>Journal of Electronic Materials</i> , 1	1.9	0
24	Multiband transparency effect induced by toroidal excitation in a strongly coupled planar terahertz metamaterial. <i>Scientific Reports</i> , 2021 , 11, 19186	4.9	4
23	Tunable Toroidal Response in a Reconfigurable Terahertz Metamaterial. <i>Advanced Optical Materials</i> , 2101215	8.1	0
22	Structured light excitation of toroidal dipoles in dielectric nanodisks. <i>Physical Review B</i> , 2021 , 104,	3.3	4
21	Metamaterials: Classifications and Characteristics. 2021 , 46-46		
20	Constructive and destructive interference of Kerker-type scattering in an ultrathin silicon Huygens metasurface. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
19	Active Control of Terahertz Toroidal Excitations in a Hybrid Metasurface with an Electrically Biased Silicon Layer. <i>Advanced Photonics Research</i> , 2021 , 2, 2100103	1.9	6
18	Broadband Polarization-Insensitive Coherent Resorber in Terahertz Metamaterial with Enhanced Anapole Response and Coupled Toroidal Dipole Modes. <i>Advanced Optical Materials</i> , 2022 , 10, 2101688	8.1	4

17	Active manipulation of toroidal resonance in hybrid metal-vanadium dioxide metamaterial. <i>Results in Physics</i> , 2022 , 33, 105146	3.7	0
16	Toroidal electromagnetically induced transparency based meta-surfaces and its applications.. <i>IScience</i> , 2022 , 25, 103708	6.1	1
15	Flat metasurfaces with square supercells of 2x2 dielectric disk quadrumers: tailoring the β structure of toroidal mode local fld. <i>Journal Physics D: Applied Physics</i> ,	3	2
14	Multifaceted anapole: from physics to applications [Invited]. <i>Optical Materials Express</i> , 2022 , 12, 1817	2.6	3
13	Photoluminescence enhancement with all-dielectric coherent metasurfaces. <i>Nanophotonics</i> , 2021 ,	6.3	1
12	Photonic and Plasmonic Metasensors. <i>Laser and Photonics Reviews</i> , 2022 , 16, 2100328	8.3	11
11	Toroidal Dipole Excitation in Metamaterial Perfect Absorber Consisting of Dielectric Nanodisks Quadrumer Clusters and Spacer on Metal Substrate. <i>Photonics</i> , 2022 , 9, 462	2.2	
10	Highly Sensitive Thin-Film Sensing with a Toroidal Dipole Resonance in the Midinfrared Supported by an E-Shaped Germanium Metasurface. <i>Advanced Photonics Research</i> , 2200129	1.9	0
9	High-efficiency and tunable circular polarization selectivity in photosensitive silicon-based zigzag array metasurface. <i>Optics and Laser Technology</i> , 2022 , 156, 108453	4.2	1
8	A Theoretical Proposal for an Ultrabroadband Metamaterial Absorber for the Circular Polarization Waves Based on Anapole Mode in the Near-Infrared Region. 2200109		
7	Nanoscale refractive index sensor with ultrahigh figure of merit based on toroidal dielectric metasurfaces. 2022 , 128988		0
6	Broadband terahertz polarization conversion using a planar toroidal metamaterial. 2022 , 132, 183103		1
5	Slow Light Effect in a High Quality Factor Toroidal Mode in a Terahertz Metasurface. 2022 ,		0
4	Towards Functional Metamaterials and Metadevices. 2022 ,		0
3	An ultra-sensitive metasurface biosensor for instant cancer detection based on terahertz spectra.		0
2	Meta-Atoms with Toroidal Topology for Strongly Resonant Responses. 2023 , 14, 468		1
1	Anapole-excited terahertz multifunctional spoof surface plasmon polariton directional Janus metastructures.		0